

## 【CLAIMS】

### 【Claim 1】

A condensing apparatus of a dish washer for condensing vapor inside a dish washer tub, the condensing apparatus comprising:  
a blower for suctioning the vapor from inside the tub; and  
an air duct connected to the blower and forming a vapor passage for circulating the vapor and generating condensed water; wherein the vapor passage includes a ridge formed thereon for stopping the condensed water.

### 【Claim 2】

The condensing apparatus according to claim 1, wherein the vapor passage forms a meander line.

### 【Claim 3】

The condensing apparatus according to claim 1, wherein the vapor passage further includes a straight portion and a curved portion, and the ridge is formed at a transitional point from the straight portion to the curved portion.

### 【Claim 4】

The condensing apparatus according to claim 1, wherein the vapor passage includes a straight portion, and the ridge is formed on the straight portion.

### 【Claim 5】

The condensing apparatus according to claim 1, wherein the air duct includes a condensed water discharge port for discharging the condensed water and a split-type vapor exhaust port for exhausting de-moisturized vapor.

### 【Claim 6】

The condensing apparatus according to claim 5, wherein the air duct further includes a portion between the condensed water discharge port and the vapor exhaust port, the portion being inclined at a predetermined angle to dispose the condensed water discharge port lower than the vapor exhaust port.

### 【Claim 7】

The condensing apparatus according to claim 1, wherein the blower includes a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the air duct, and a dryer fan for providing suctioning force to suction vapor from inside the tub.

### 【Claim 8】

The condensing apparatus according to claim 7, wherein the blower further includes a motor for driving the condenser fan and the dryer fan together.

### 【Claim 9】

A condensing apparatus of a dish washer having an air duct for suctioning and condensing vapor from inside a dish washer tub, the condensing apparatus comprising:  
a vapor passage formed in the air duct for circulating the vapor suctioned from

inside the tub and generating condensed water; and a ridge formed on the vapor passage for stopping the condensed water.

**【Claim 10】**

The condensing apparatus according to claim 9, wherein the vapor passage forms a meander line.

**【Claim 11】**

The condensing apparatus according to claim 9, wherein the vapor passage includes a straight portion and a curved portion, and the ridge is formed at a transitional point from the straight portion to the curved portion.

**【Claim 12】**

The condensing apparatus according to claim 9, wherein the vapor passage includes a straight portion, and the ridge is formed on the straight portion of the vapor passage.

**【Claim 13】**

The condensing apparatus according to claim 9, wherein the air duct includes a condensed water discharge port for discharging the condensed water and a split-type vapor exhaust port for exhausting de-moisturized vapor.

**【Claim 14】**

The condensing apparatus according to claim 13, wherein the air duct further includes a portion between the condensed water discharge port and the vapor exhaust port, the portion being inclined at a predetermined angle to dispose the condensed water discharge port lower than the vapor exhaust port.

**【Claim 15】**

The condensing apparatus according to claim 9, further comprising a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the air duct, and a dryer fan for providing suctioning force to suction vapor from inside the tub.

**【Claim 16】**

A condensing apparatus of a dish washer for condensing vapor inside a dish washer tub, the condensing apparatus comprising:  
a dryer fan for providing suctioning force to suction vapor from inside the tub;  
an air duct forming a vapor passage for circulating the suctioned vapor and generating condensed water and a ridge formed on the vapor passage for stopping the condensed water; and  
a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the vapor passage.

**【Claim 17】**

The condensing apparatus according to claim 16, wherein the vapor passage forms a meander line.

**【Claim 18】**

The condensing apparatus according to claim 16, wherein the vapor passage has a straight portion and a curved portion, and the ridge is formed on at least one of a transitional point from the straight portion to the curved portion or a straight portion.

**【Claim 19】**

The condensing apparatus according to claim 16, wherein the air duct further includes a condensed water discharge port for discharging the condensed water and a split-type vapor exhaust port for exhausting de-moisturized vapor, a portion of the air duct between the condensed water discharge port and the vapor exhaust port being inclined at a predetermined angle to dispose the condensed water discharge port lower than the vapor exhaust port.

**【Claim 20】**

The condensing apparatus according to claim 16, wherein the condenser fan and the dryer fan are driven together by a single motor.